

ROTARY PUMP WITH EXCLUSIVELY HYDRODYNAMICALLY
SUSPENDED IMPELLER

Woodard et al.

Appl. No.: Unknown

Atty Docket: DUMMER4.1CPCC1

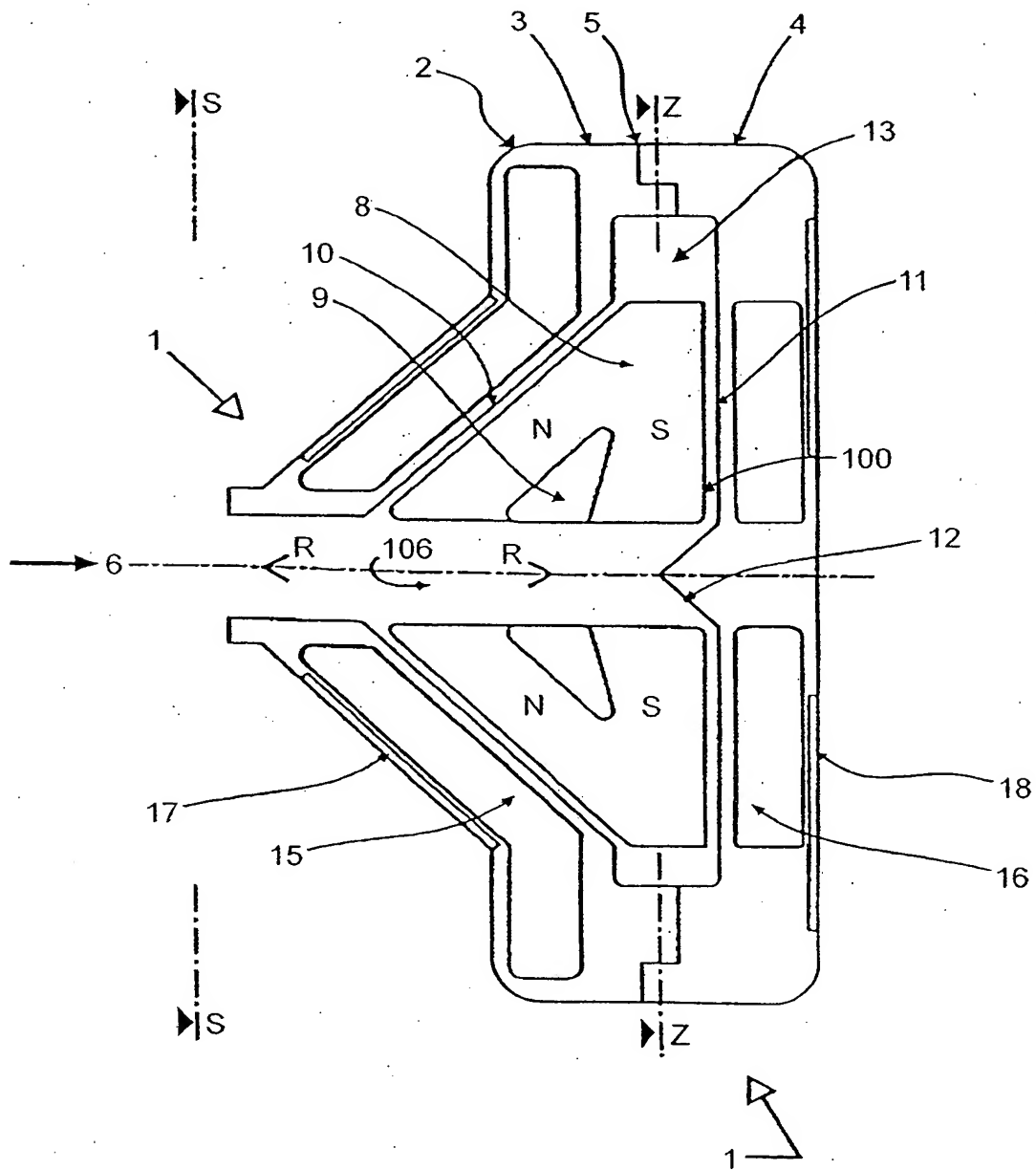


FIG. 1

ROTARY PUMP WITH EXCLUSIVELY HYDRODYNAMICALLY
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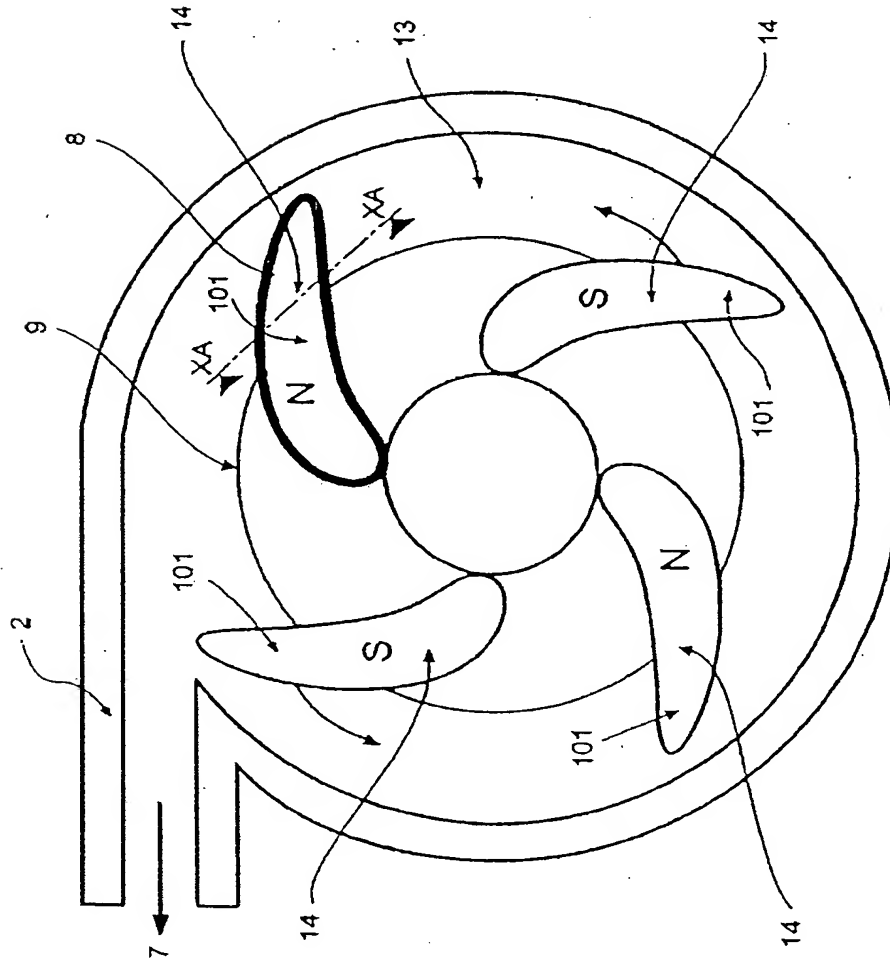


FIG. 2

ROTARY PUMP WITH EXCLUSIVELY HYDRODYNAMICALLY
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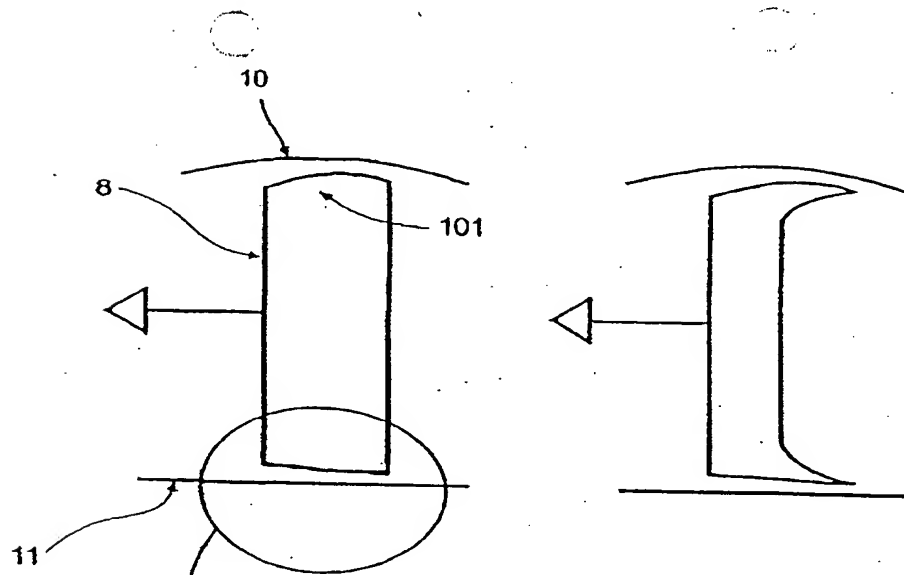


FIG. 3A

FIG. 3B

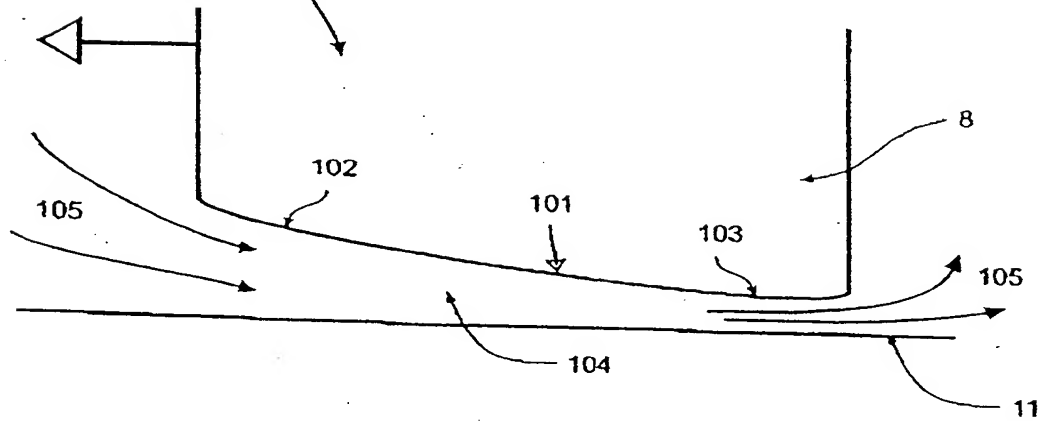


FIG. 3C

ROTARY PUMP WITH EXCLUSIVELY HYDRODYNAMICALLY
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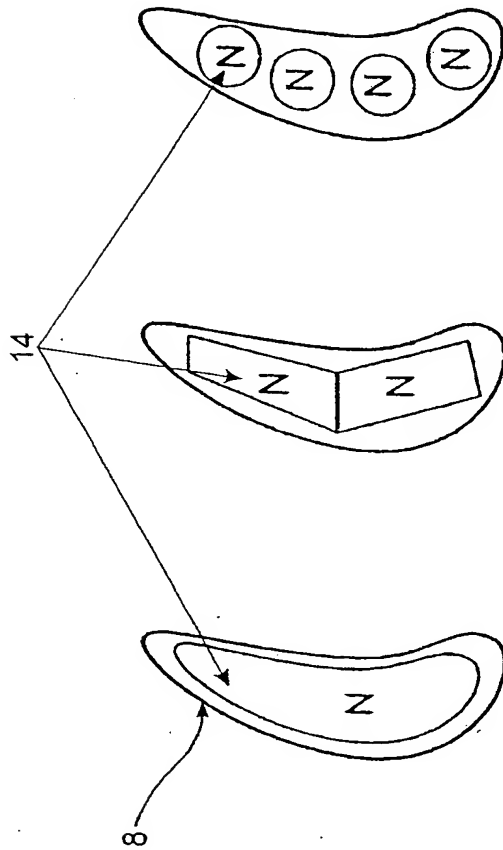


FIG. 4A FIG. 4B FIG. 4C

ROTARY PUMP WITH EXCLUSIVELY HYDRODYNAMICALLY
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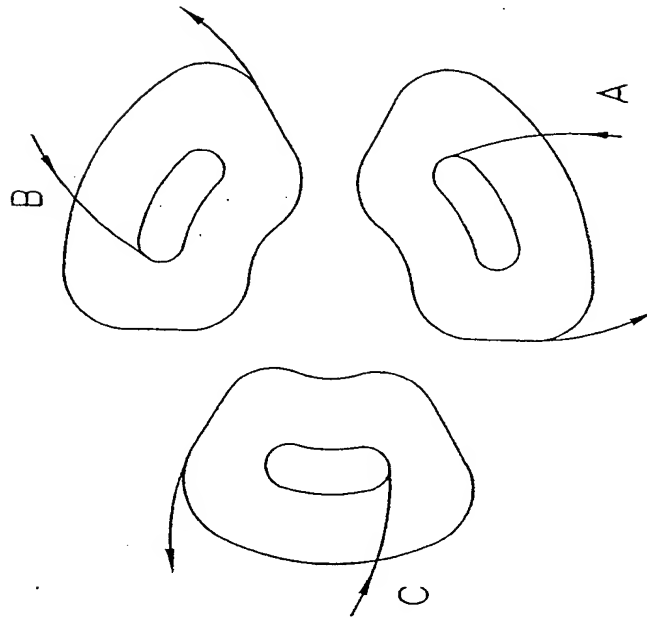


FIG. 5A

ROTARY PUMP WITH EXCLUSIVELY HYDRODYNAMICALLY
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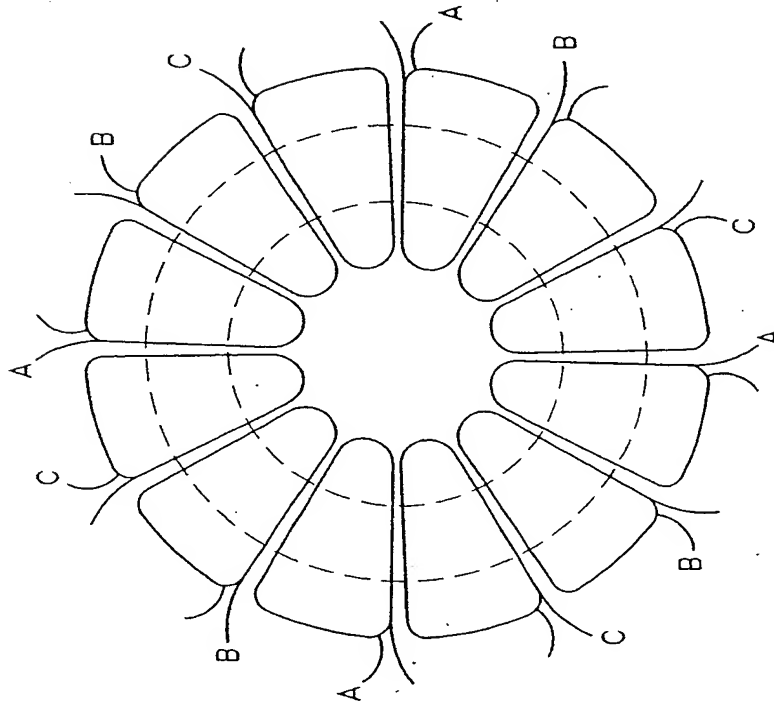


FIG. 5B

ROTARY PUMP WITH EXCLUSIVELY HYDRODYNAMICALLY
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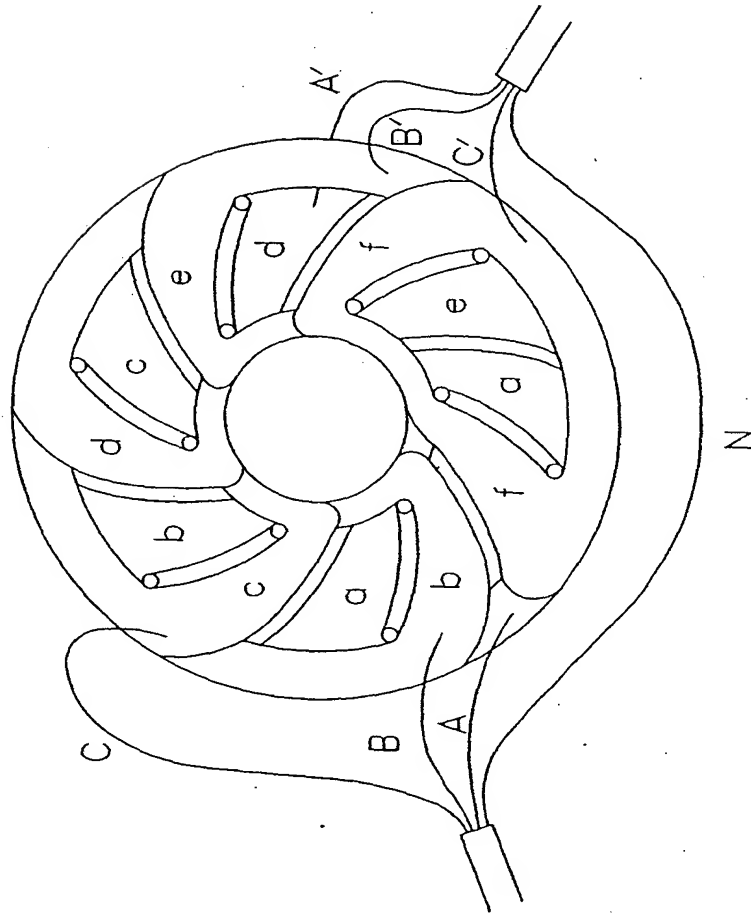


FIG. 5C

ROTARY PUMP WITH EXCLUSIVELY HYDRODYNAMICALLY
SUSPENDED IMPELLER

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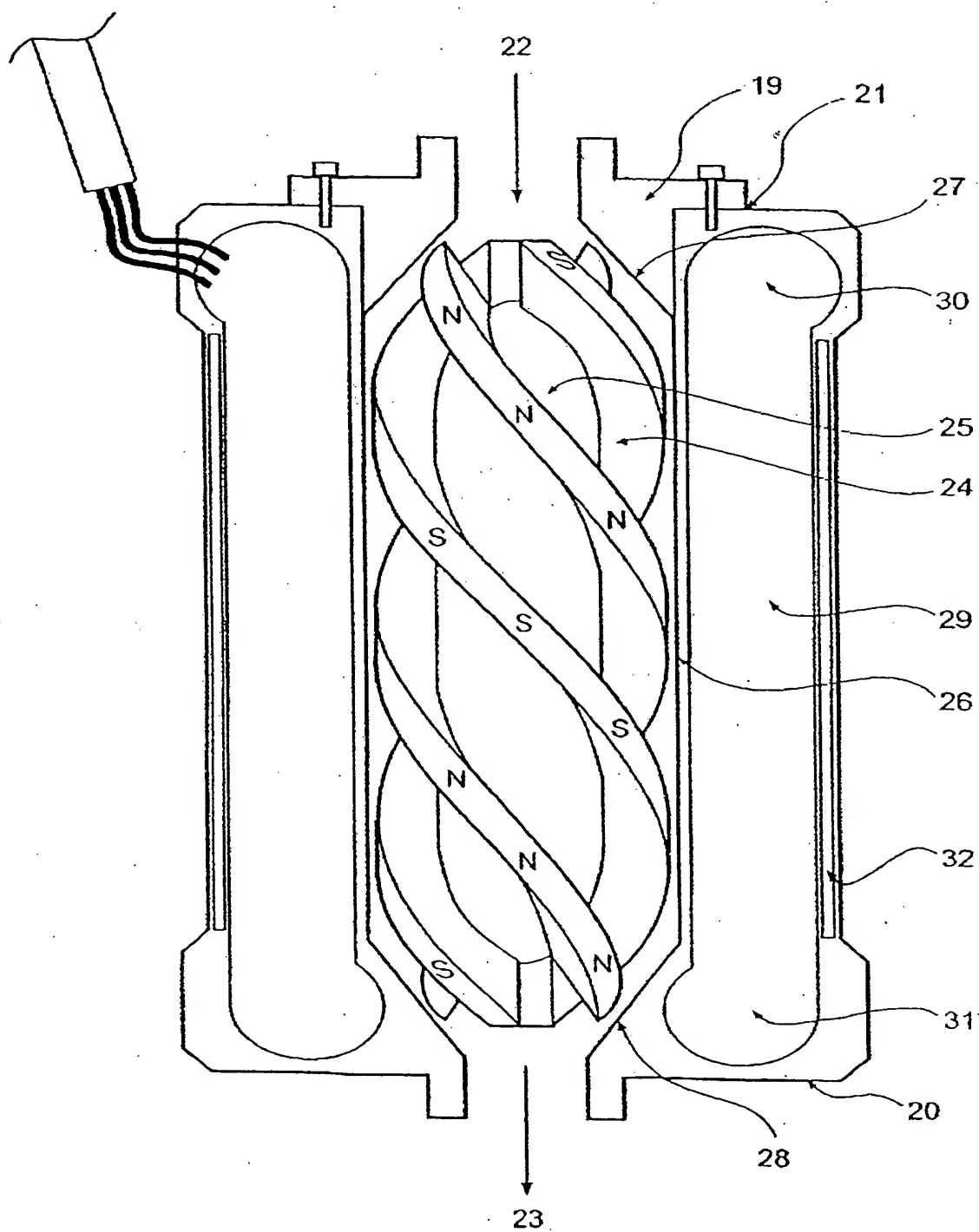


FIG. 6

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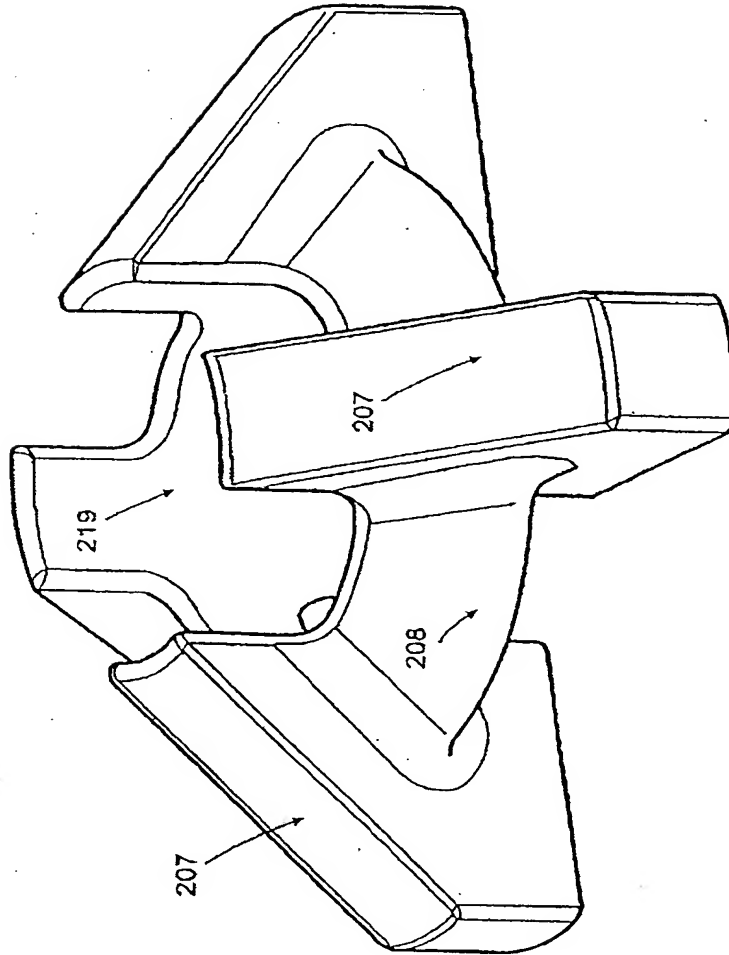


FIG. 8

ROTARY PUMP WITH EXCLUSIVELY HYDRODYNAMICALLY
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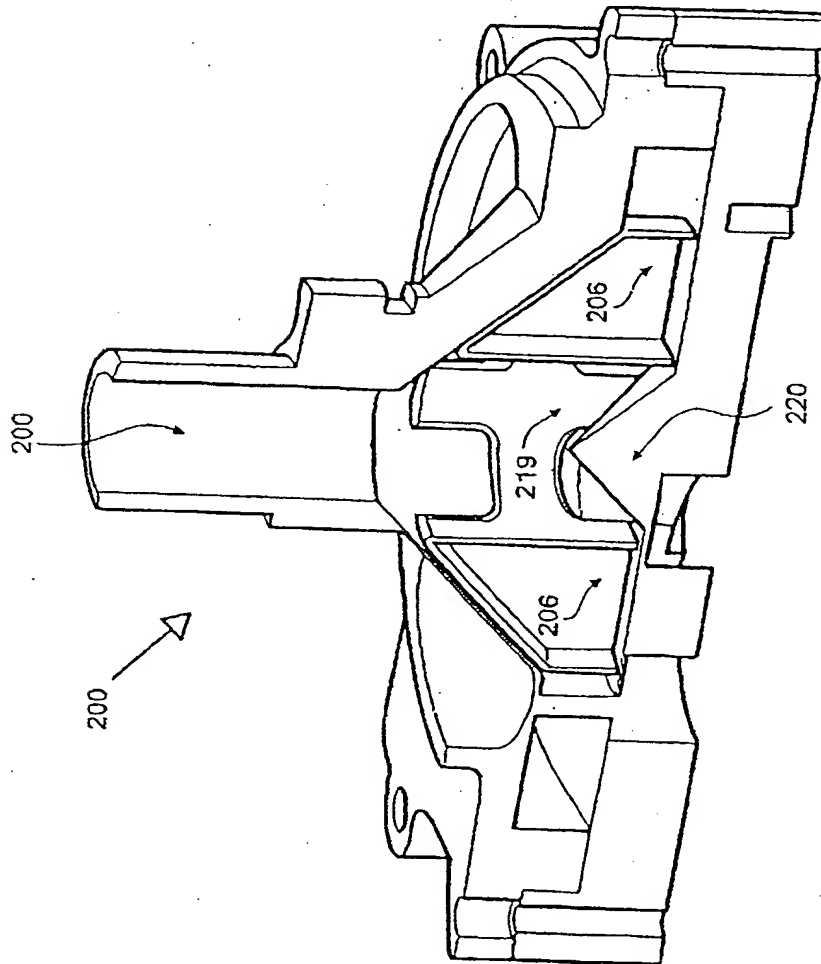


FIG. 9

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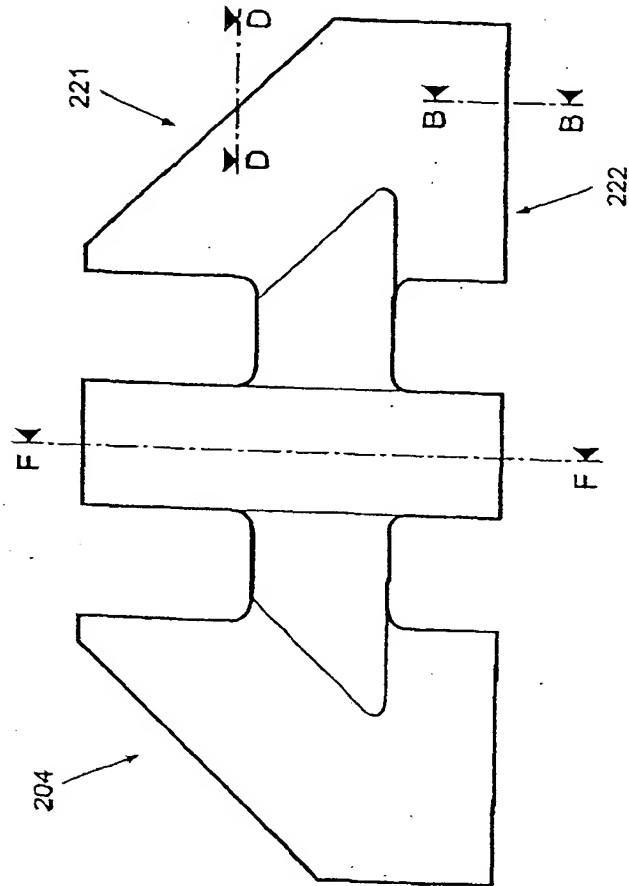


FIG. 10

ROTARY PUMP WITH EXCLUSIVELY HYDRODYNAMICALLY
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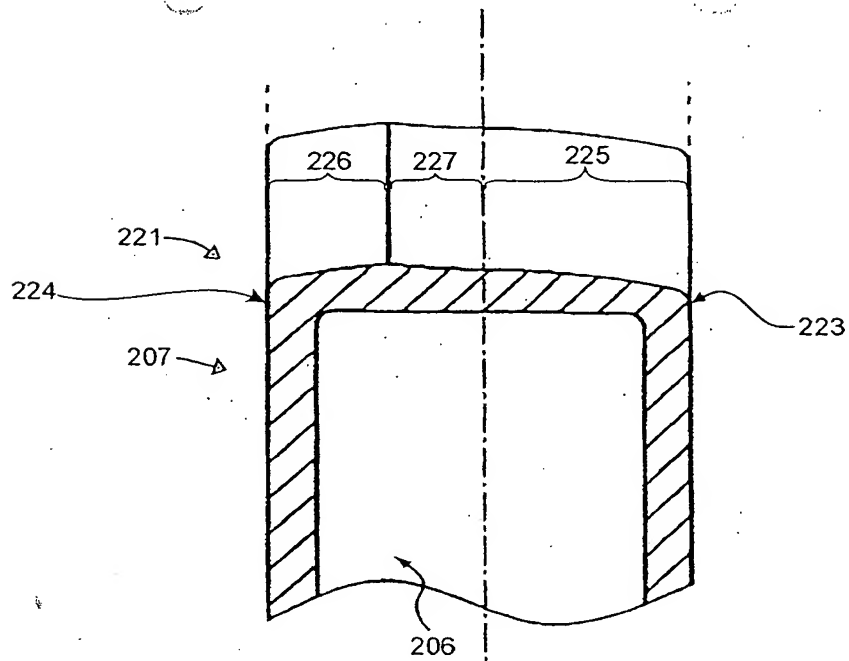


FIG. 11A

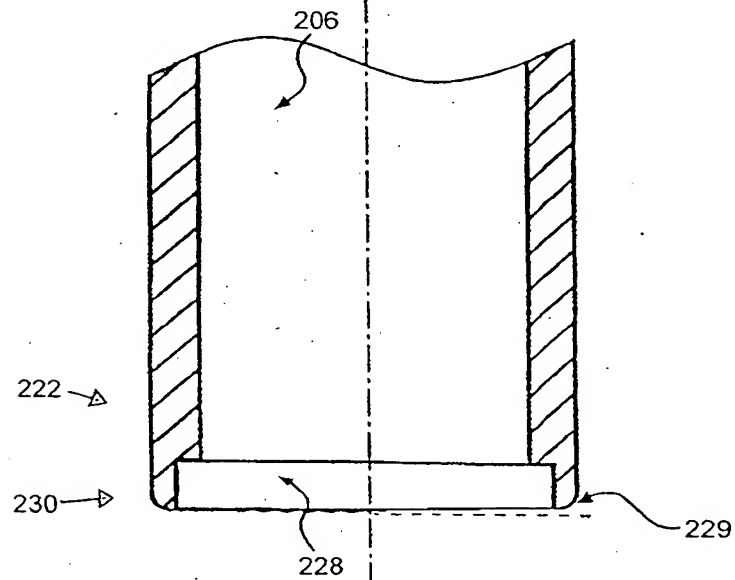


FIG. 11B

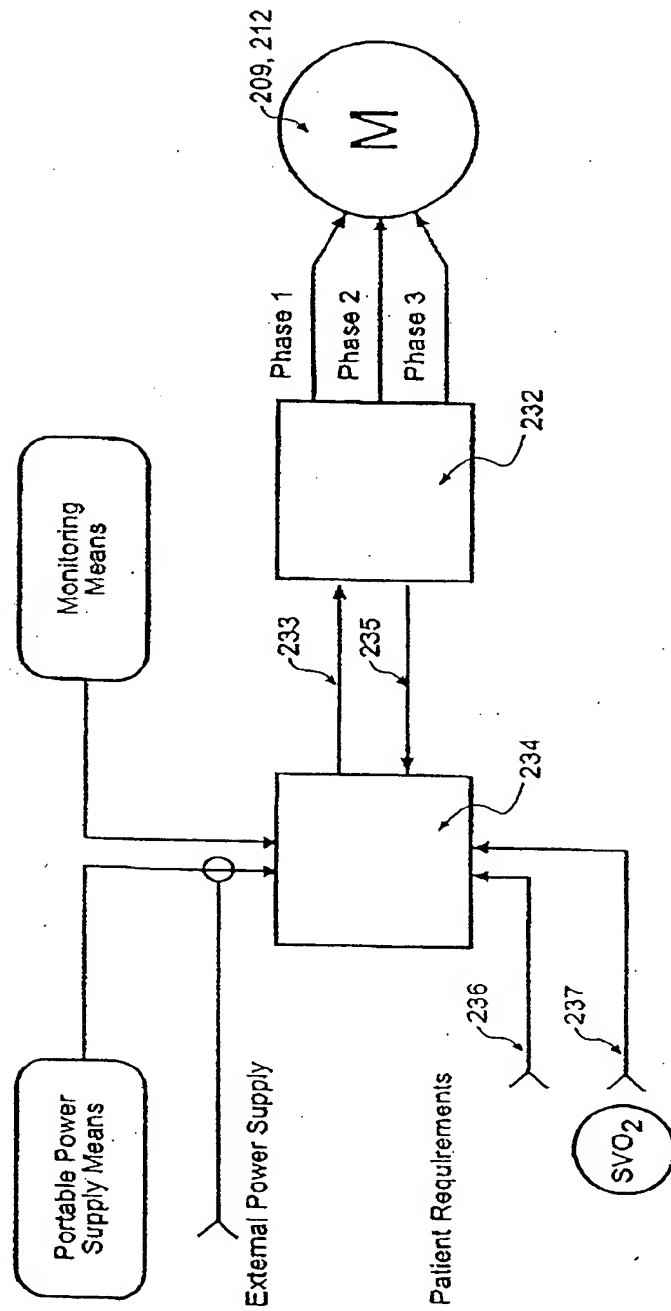


FIG. 12

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VA-A1 V1 HQ Curves in 18% Glycerol

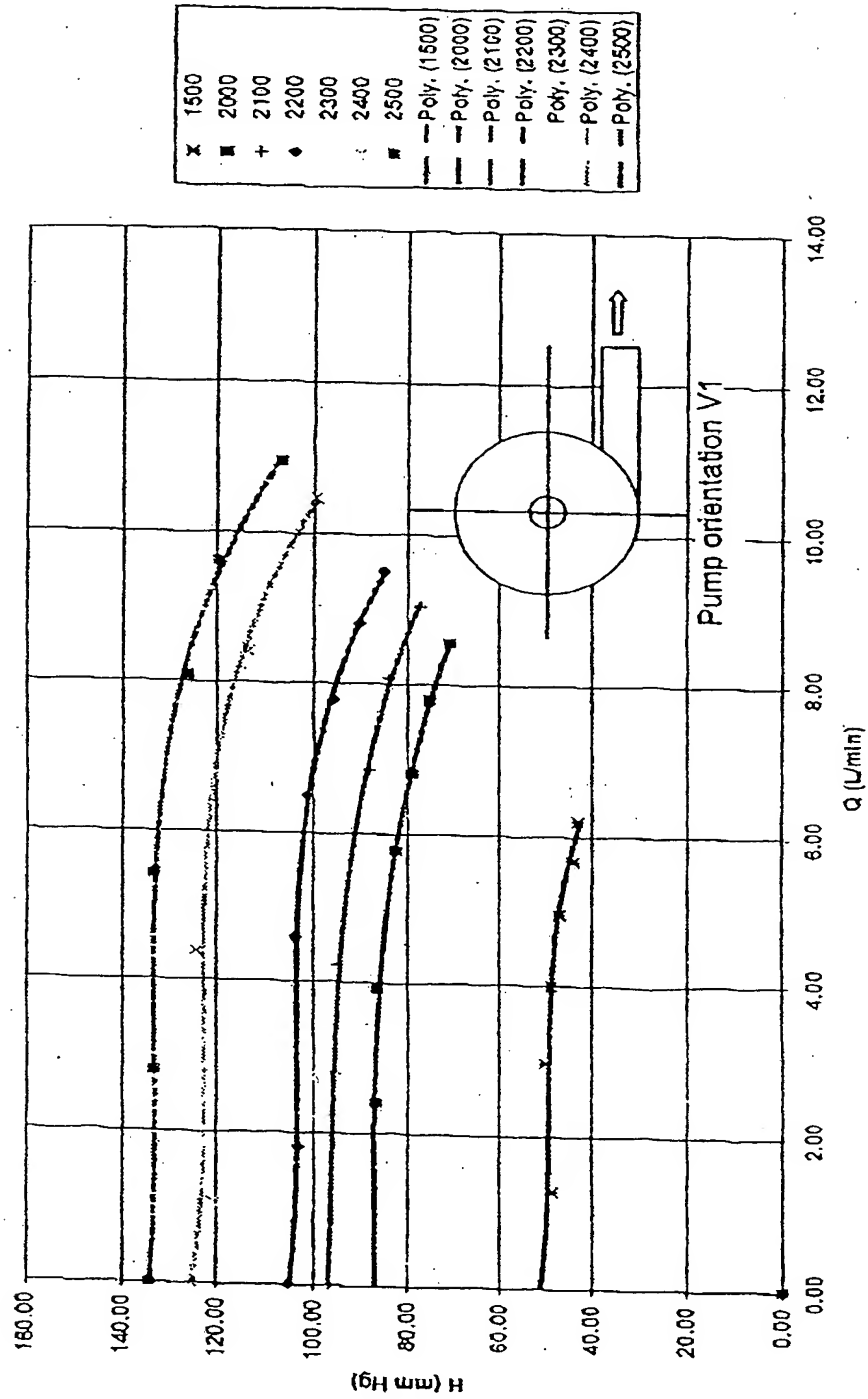


FIG. 13

VA-A1 V1 Pump Efficiency (η) Curves In 18% Glycerol

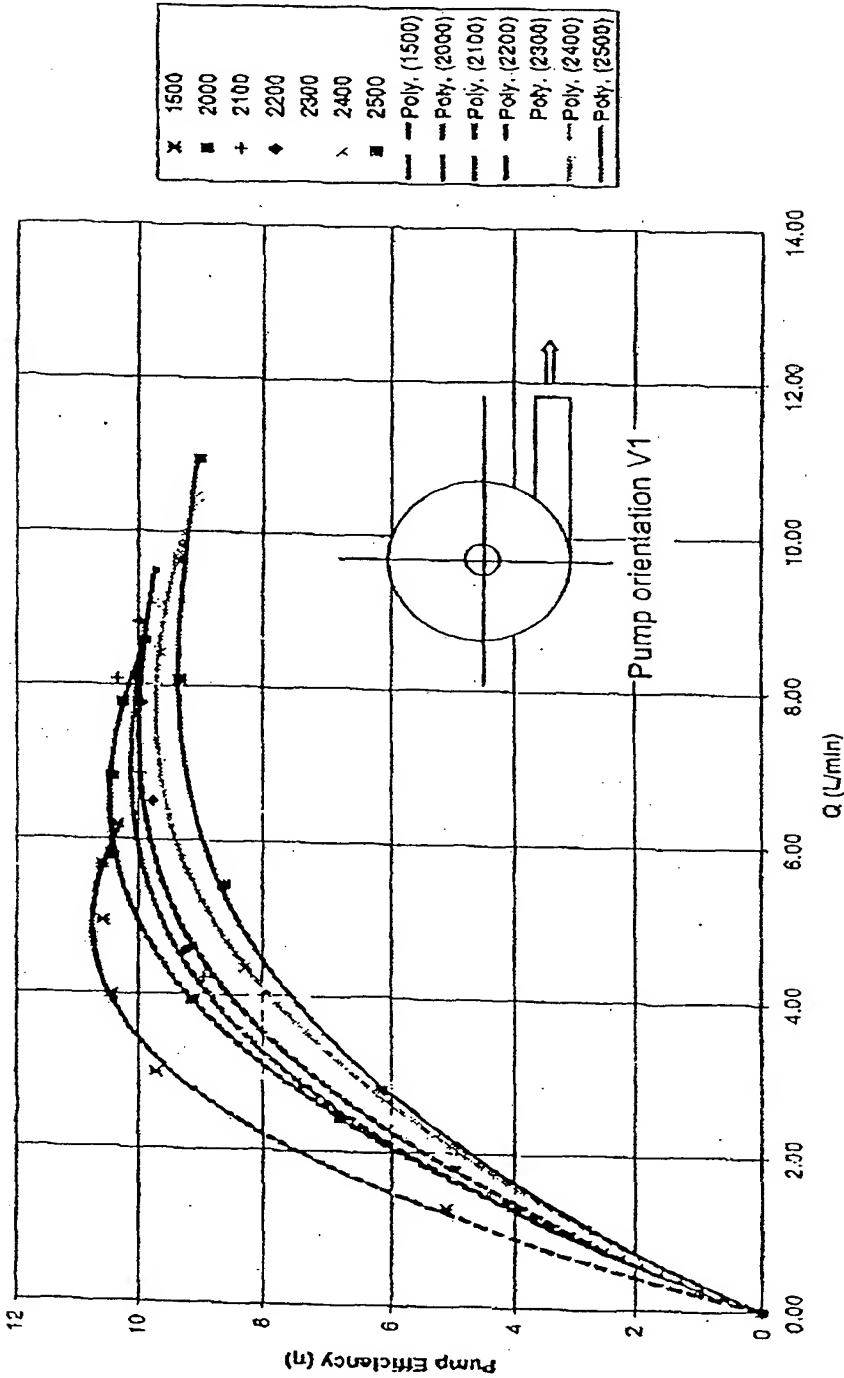


FIG. 14

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VA-A1 V1 Electrical Power vs Flow Rate Curves In 18% Glycerol

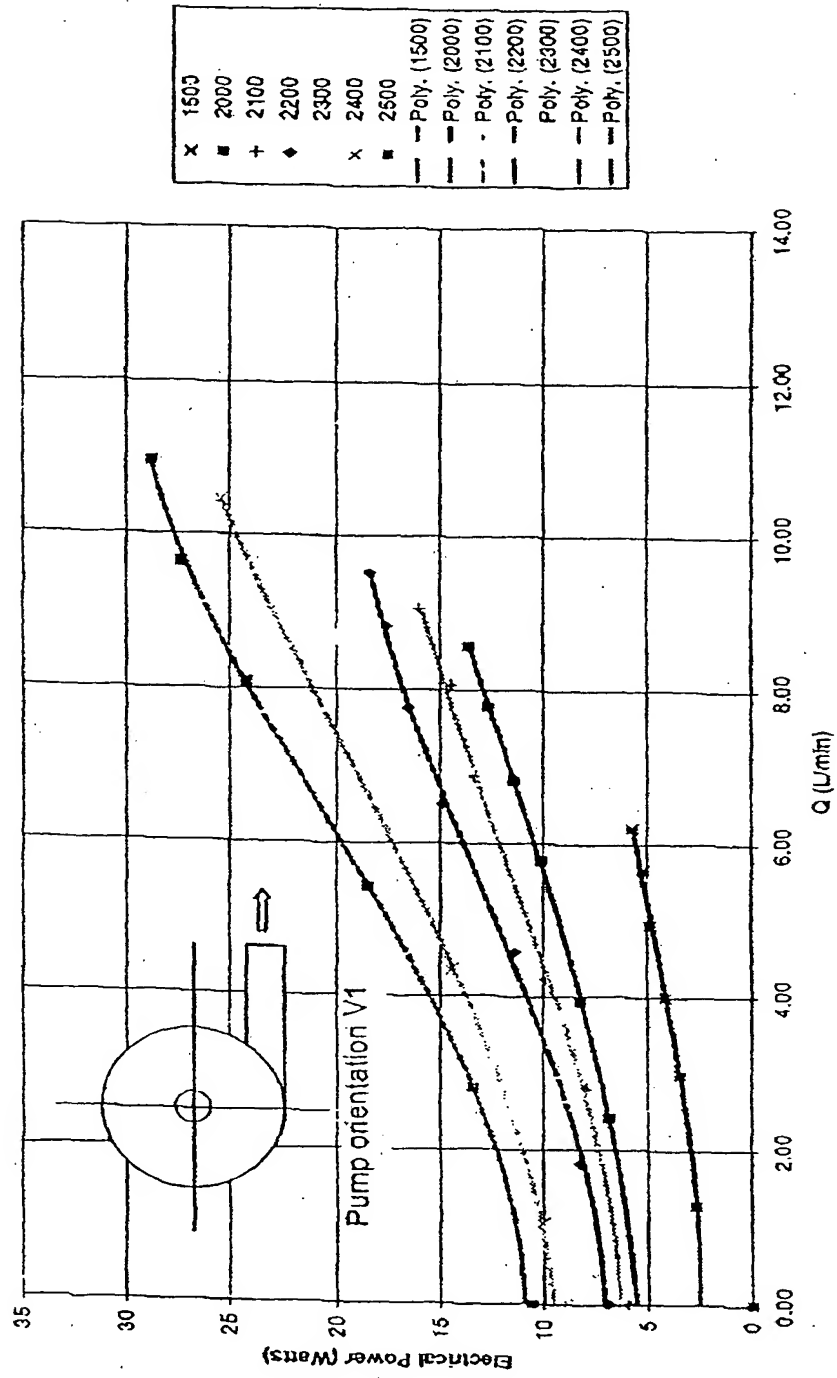


FIG. 15

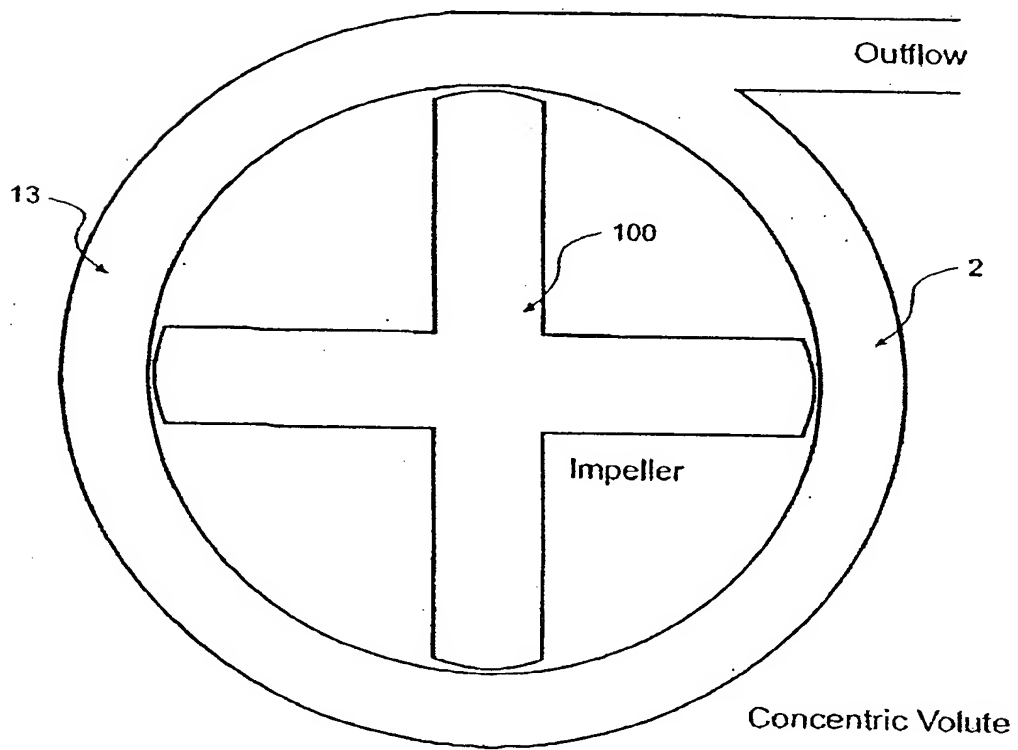


FIG. 16

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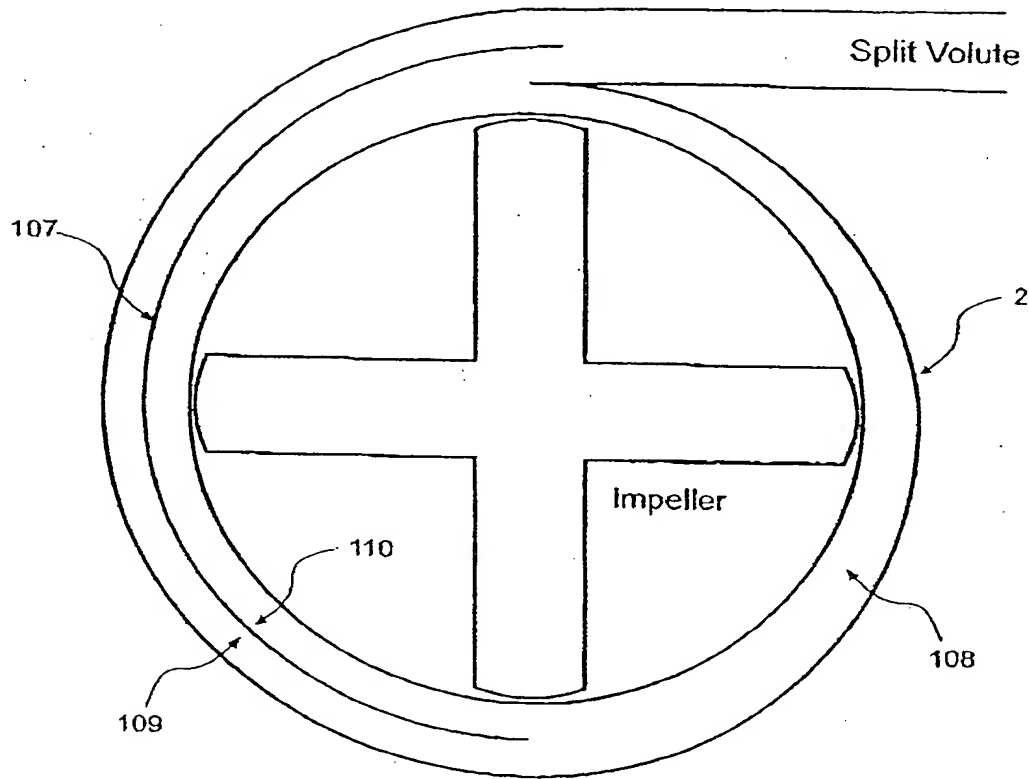


FIG. 17

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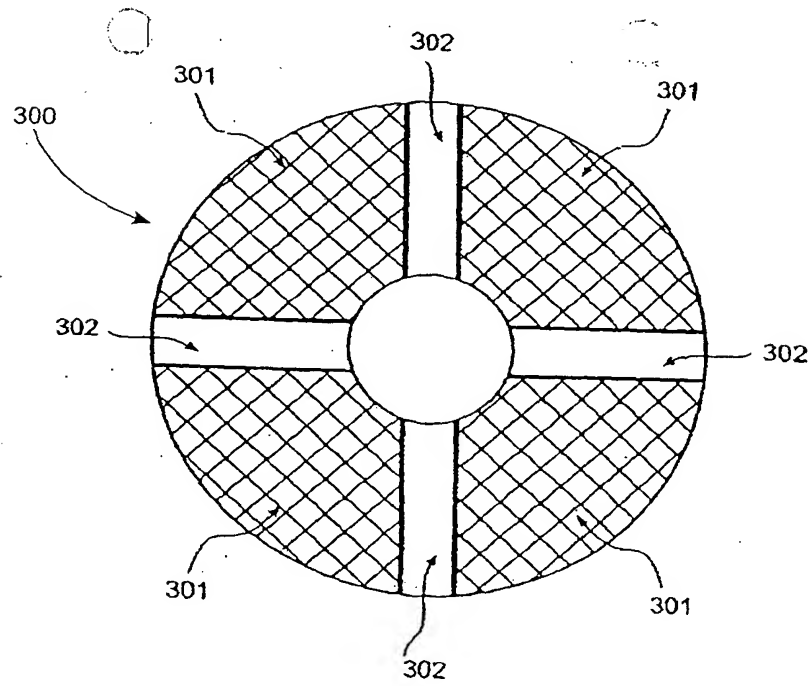


FIG. 18

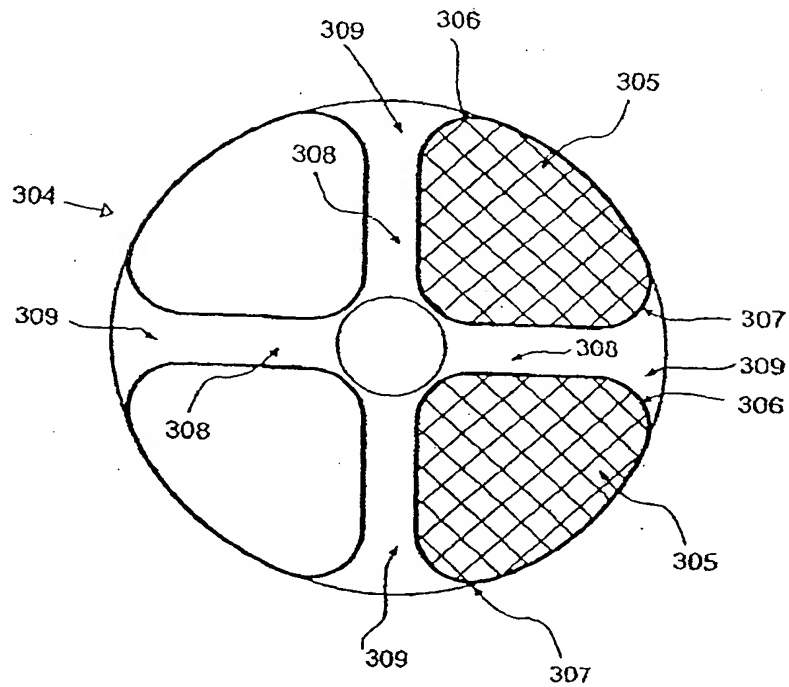


FIG. 19

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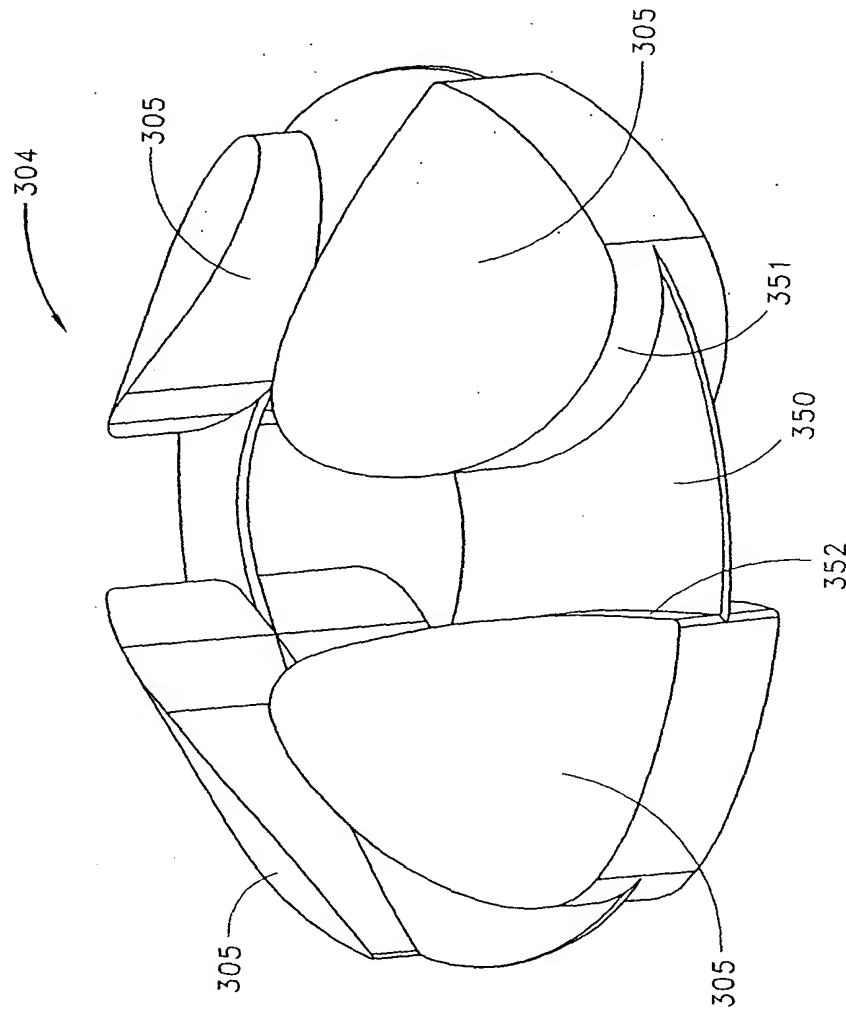


FIG. 20

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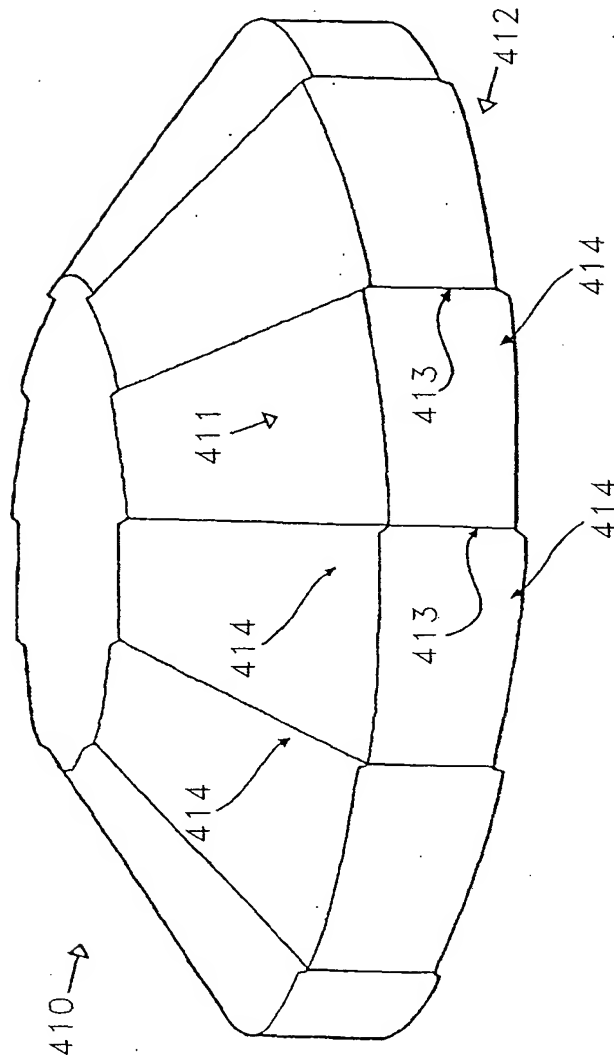


FIG. 21

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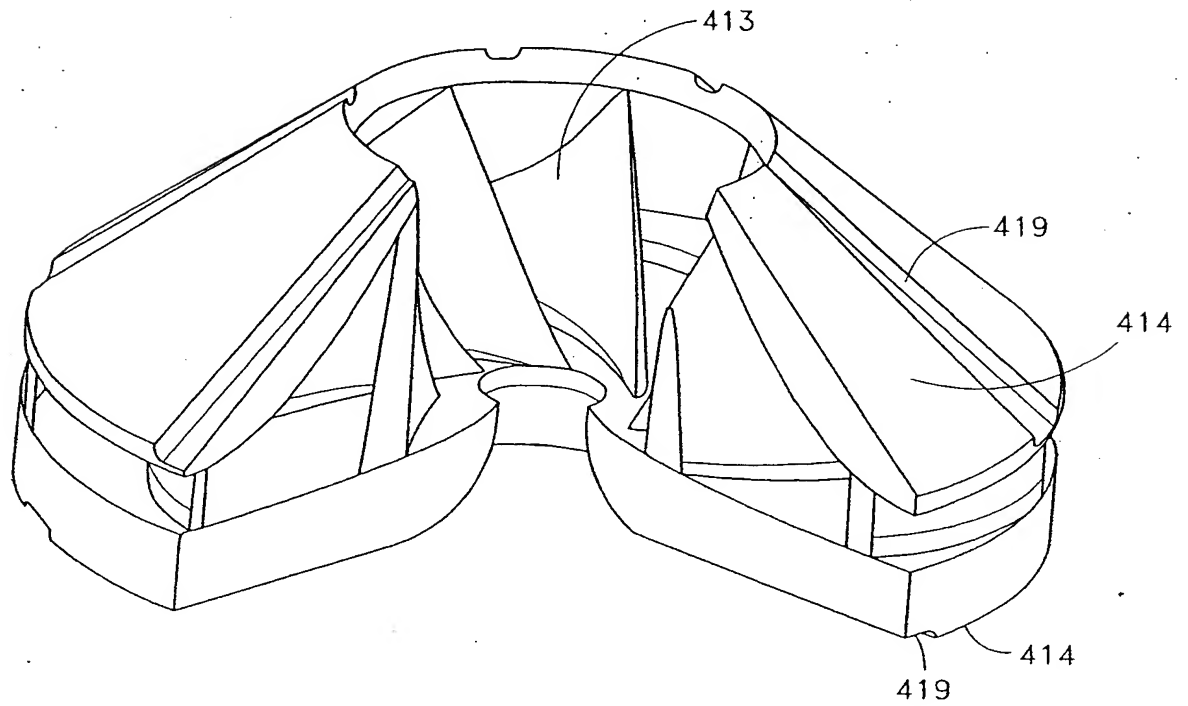


FIG. 22

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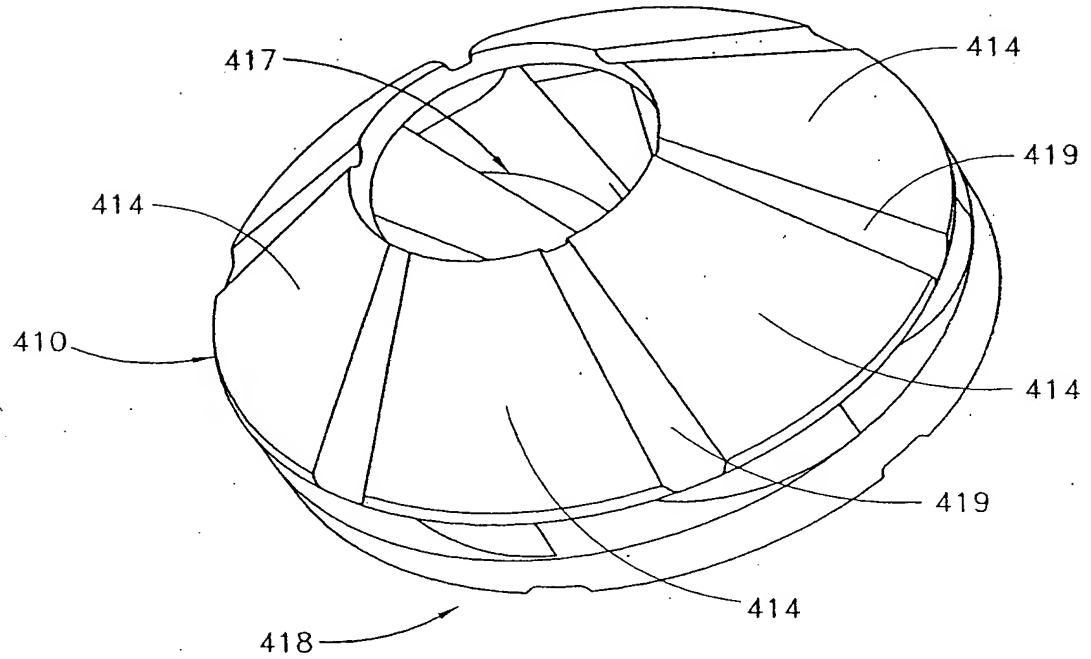


FIG. 23

*ROTARY PUMP WITH EXCLUSIVELY HYDRODYNAMICALLY
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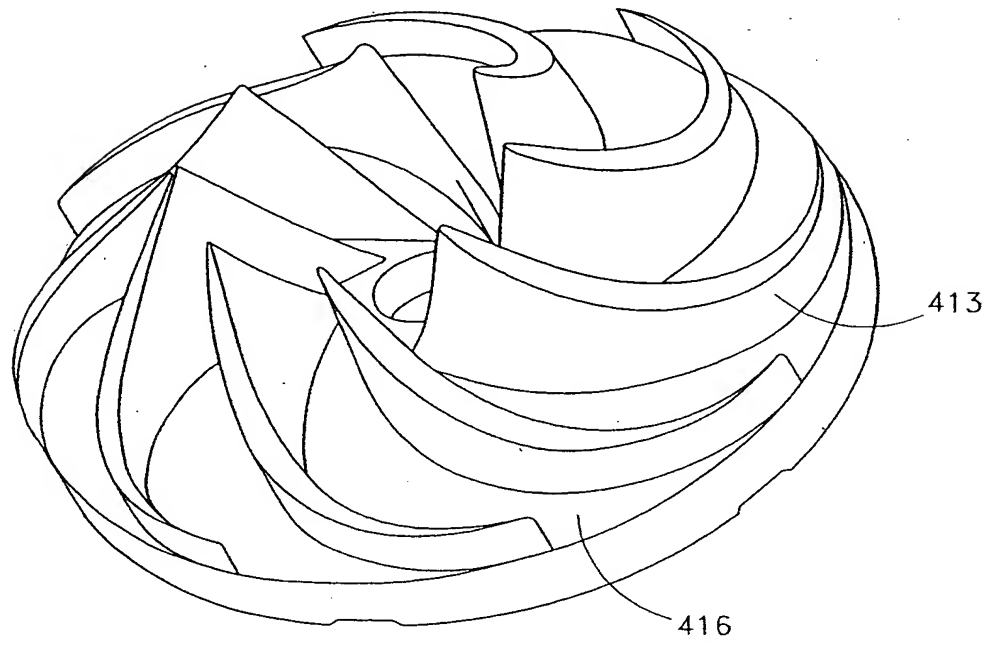


FIG. 24

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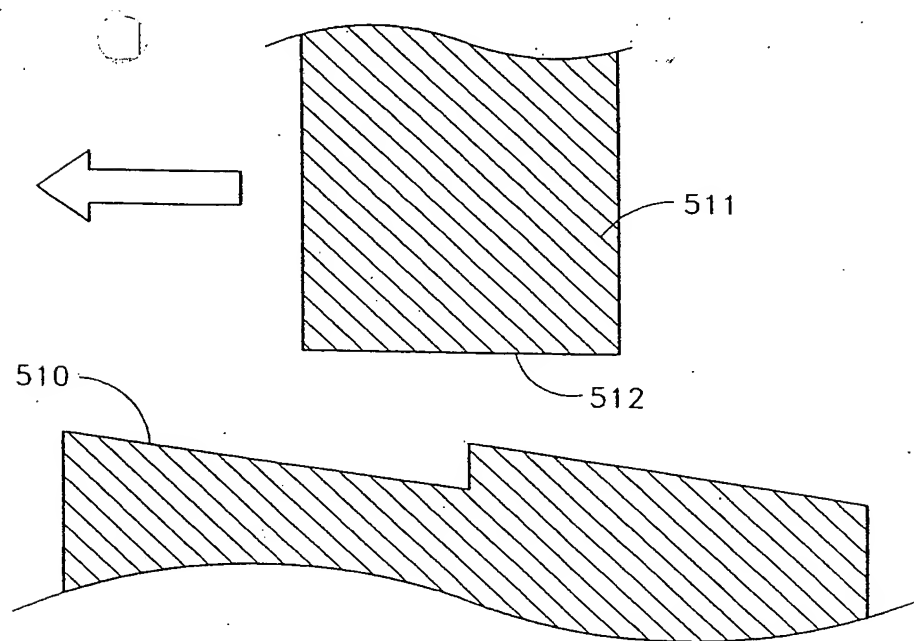


FIG. 25

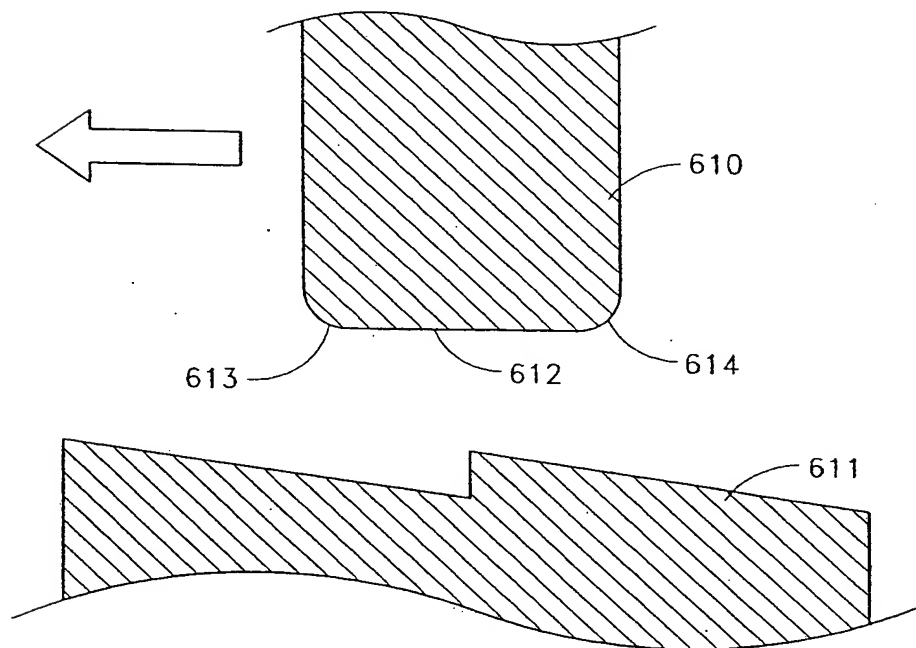


FIG. 26

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